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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/995,423 | 11/27/2001 | Wen-Chi Fang | U 013738-6 | 9763 |

7590 12/31/2003

Ladas & Parry
26 West 61st Street
New York, NY 10023

EXAMINER

NGUYEN, HAI L

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2816

DATE MAILED: 12/31/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/995,423

Applicant(s)

FANG, WEN-CHI

Examiner

Hai L. Nguyen

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AW

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3,4 and 15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4 and 15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. The amendment received on 10/20/03 has been reviewed and considered with the following results:

As to the objection to the claims 1, 2, and 8, Applicant's amendments have overcome the objection, as such; the objection has been withdrawn.

As to the prior art rejections to the claims, Applicant's amendments have overcome the prior art rejections mailed on 06/18/03, as such; the prior art rejections have been withdrawn. However, Applicant's amendments necessitate new a new action on the merits as set forth below.

Claim Objections

2. Claim 15 is objected to because of the following informalities: in line 1, "The universal clock" should be changed to --A universal clock--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 3, 4, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyazaki et al. (US 6,515,519; previously cited) in view of Tsern et al. (US 6,263,448).

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With regard to claims 1 and 15, Miyazaki et al. discloses in Figs.1-4 a clock generator circuit comprising only one high frequency clock region (10, 12, 14, 16) only having only one phase lock loop for generating high frequency clocks (CLK1, CLK2) being integrated in a first chip; and a low frequency clock region (LOW RATE 25 MHz). Figs.1-4 of Miyazaki et al. discloses in Figs.1-4 the clock generator circuit meets all the claimed limitations except for Miyazaki et al. does not disclose that the low frequency clock region is includes only one phase lock loop for generating low frequency clocks; at least one delay lock loop for inherently increasing a number of the high frequency clocks of the high frequency clock region; and an oscillator connected to the low frequency clock region. Tsern et al. discloses in Fig.8 the low frequency clock region (140) including only one phase lock loop (144) for generating low frequency clocks being integrated in a chip; at least one delay lock loop (146) for increasing a number of the high frequency clocks of the high frequency clock region; and an inherent oscillator (155) connected to the low frequency clock region as recited in the claim. Therefore, it would have been obvious to one of ordinary skill in the art at the time of Applicant's invention was made to utilize that the low frequency clock circuit taught by Tsern et al. with the prior art (Figs.1-4 of Miyazaki et al.) for the advantage of saving power consumption by dynamically switching between a fast and a slow clock depending upon the needed data bandwidth.

With regard to claims 3 and 4, the references also meet the limitations in these claims.

Conclusion

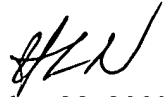
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 703-306-9178 and

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Right Fax number is 703-746-3951. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 703-308-4876. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

HLN 
December 29, 2003


TIMOTHY P. CALLAHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800